

# Chanti Babu Sambangi

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**LeetCode:** leetcode.com

## Professional Experience

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**AI Research Intern, PreciseFrame Pte Ltd (Remote)** **May 2025 – Present**

- Designing an AI model to predict **video compression resource needs** based on FPS, resolution, bitrate, etc.
- Contributing to real-world applications in **edge AI systems** and scalable video pipelines.
- Internship includes IP compliance, NDA, and potential transition to R&D collaboration.

## Projects

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**AI YouTube Video Summarization Tool** [Link](#) **May 2025**

- Built a full-stack **GenAI application** using **Streamlit**, integrated **Hugging Face LLM APIs** for real-time video summarization, and deployed on **Render**.
- Processed YouTube transcripts with modular Python scripts, supported **multi-language summaries**.
- Designed a **scalable, maintainable architecture** and supported thumbnail retrieval.
- **Impact:** Delivered a **production-ready GenAI tool** with live users, streamlining educational content consumption across languages.

**Real-Time Image Caption Generator using BLIP and Flickr8k** [Link](#) **Feb 2025**

- Fine-tuned the BLIP model on the Flickr8k dataset — achieved BLEU: 0.078, METEOR: 0.3200, ROUGE-L: 0.4200.
- Preprocessed captions, resized images, tokenized inputs, and implemented batching using PyTorch.
- **Impact:** Delivered context-aware captions, enhancing image accessibility and searchability across visual platforms.

**Sentiment Analysis using RNN and LSTM** **Feb 2025**

- Trained on SST-2 dataset (50k+ samples) and achieved **85% accuracy**.
- Applied NLTK preprocessing, sequence padding, and tuned LSTM layers with dropout and Adam optimizer.

## Education

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**IIITDM Kancheepuram, Chennai** **Nov 2022 – June 2026**

B.Tech in Computer Science and Engineering with AI

## Technical Skills

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**Languages/Tools:** C, C++, Python, HTML, CSS, SQL, Git and GitHub

**Frameworks/Libraries:** TensorFlow, Keras, scikit-learn, OpenCV, NLTK, **LangChain**,

**Concepts:** DSA, System Design, OOP, Machine Learning, Deep Learning, Neural Networks, NLP, **GEN-AI**

## Courses and Certificates

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**Building LLM Applications with Prompt Engineering**  
NVIDIA Deep Learning Institute (June 2025)

**AWS Cloud Assessment**  
LearnTube

**Generative AI with Large Language Models**  
Coursera

**Introduction to Generative AI**  
Google Cloud Skills Boost (Apr 2025)

## Achievements

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- Solved **500+ problems** on **LeetCode**, earned **100 Days Badge**, ranked **top 6.9% globally** (2024) and solved **100+ problems** on **gfg**.
- Achieved 175 points in the Job-A-Thon Hiring Challenge conducted by GeeksforGeeks, where the average was 74, among 18,000+ participants. [link](#)
- **Team Leader**, Howzatt Premier League (2025) – demonstrated strategic thinking and team management.